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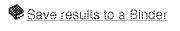
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Catmull-Clark subdivision for geometry shaders

Maxim Kazakov

October 2007 AFRI GRAPH '07: Proceedings of the 5th international conference on Computer graphics, virtual reality, visualisation and interaction in Africa

Publisher: ACM

Full text available: (2) pdf(6.45 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 243, Citation Count: 0 Subdivision surfaces possess many appealing properties applicable to interactive computer graphics. However, the necessity to access a variable-sized neighborhood in a control mesh makes it difficult to efficiently accelerate tessellation calculations ...

Keywords: Catmull-Clark subdivision, embedded graphics hardware, geometry shader

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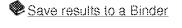
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An accelerating splatting algorithm based on multi-texture mapping for volume

rendering

Han Xiao, De-Gui Xiao

November 2006 GRAPHITE '06: Proceedings of the 4th international conference on

Computer graphics and interactive techniques in Australasia and Southeast

Asia

Publisher: ACM

Full text available: pdf(134.80 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 58, Citation Count: 0

Texture-mapping hardware has been successfully exploited for volume rendering. In this paper, we combine splatting method with 2D texture mapping efficiently and propose an algorithm for footprint algorithm based volume rendering accelerated by

multi ...

Keywords: footprint, multi texture blending, splatting, volume render

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Multi-grained level of detail using a hierarchical seamless texture atlas

Krzysztof Niski, Budirijanto Purnomo, Jonathan Cohen

April 2007 | 13 D '07: Proceedings of the 2007 symposium on Interactive 3D graphics and games

Publisher: ACM

Full text available: pdf(2.43 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 175, Citation Count: 0

Previous algorithms for view-dependent level of detail provide local mesh refinements either at t finest granularity or at a fixed, coarse granularity. The former provides triangle-level adaptation often at the expense of heavy CPU usage and low triangle ...

Keywords: geometry image, level of detail, out-of-core, parametrization, texture atlas

2 Hardware-software-balanced resampling for the interactive visualization of unstructured gri Manfred Weiler, Thomas Ertl

October 2001 VIS '01: Proceedings of the conference on Visualization '01

Publisher: IEEE Computer Society

Full text available: pdf(752,18 KB) Publisher Site

Additional Information: full cliation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 24, Citation Count: 3

In this paper we address the problem of interactively resampling unstructured grids. Three algorithms are presented. They all allow adaptive resampling of an unstructured grid on a multiresolution hierarchy of arbitrarily sized cartesian grids according ...

Texture synthesis over arbitrary manifold surfaces

Li-Yi Wei, Marc Levoy

August 2001 SI GGRAPH '01: Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 77, Citation Count: 46

Algorithms exist for synthesizing a wide variety of textures over rectangular domains. However,

remains difficult to synthesize general textures over arbitrary manifold surfaces. In this paper, v present a solution to this problem for surfaces defined ...

Keywords: curves & surfaces, texture mapping, texture synthesis

4 Level-of-detail volume rendering via 3D textures

Manfred Weiler, Rüdiger Westermann, Chuck Hansen, Kurt Zimmermann, Thomas Ertl October 2000 VVS '00: Proceedings of the 2000 IEEE symposium on Volume visualization

Publisher: ACM

Full text available: pdf(1.04 MB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 85, Citation Count: 13

### 5 Parallel controllable texture synthesis

Sylvain Lefebvre, Hugues Hoppe

July 2005 ACM Transactions on Graphics (TOG), Volume 24 Issue 3

Publisher: ACM

Full text available: pdf(1.98 MB) mov(25:6 MIN) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 211, Citation Count: 9

We present a texture synthesis scheme based on neighborhood matching, with contributions in areas: parallelism and control. Our scheme defines an infinite, deterministic, aperiodic texture, from which windows can be computed in real-time on a GPU. ...

Keywords: Gaussian stack, coordinate jitter, data amplification, neighborhood matching, runtin content synthesis, synthesis magnification

#### 6 Lapped textures

Emil Praun, Adam Finkelstein, Hugues Hoppe

July 2000 SI GGRAPH '00: Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: 📆 pdf(9.11.MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 73, Citation Count: 68

We present for creating texture over an surface mesh using an example 2D texture. The approa is to identify interesting regions (texture patches) in the 2D example, and to repeatedly paste the onto the surface until it is completely ...

Keywords: parametrizations, texture mapping, texture synthesis

## 7 Texture mapping 3D models of real-world scenes

Frederick M. Weinhaus, Venkat Devarajan

December 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 4

Publisher: ACM

Full text available: pdf(1.98 MB)

Additional Information: full citation, abstract, references, index terms, review

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 503, Citation Count: 0

Texture mapping has become a popular tool in the computer graphics industry in the last few ye because it is an easy way to achieve a high degree of realism in computer-generated imagery w

very little effort. Over the last decade, texture-mapping ...

Keywords: anti-aliasing, height field, homogeneous coordinates, image perspective transformation, image warping, multiresolution data, perspective projection, polygons, ray tracireal-time scene generation, rectification, registration, texture mapping, visual simulators, voxels

#### 8 Parallel controllable texture synthesis

Sylvain Lefebvre, Hugues Hoppe

July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Papers

Publisher: ACM

Full text available: pdf(1.98 MB) mov(25:6 MIN) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 211, Citation Count: 9

We present a texture synthesis scheme based on neighborhood matching, with contributions in areas: parallelism and control. Our scheme defines an infinite, deterministic, aperiodic texture, from which windows can be computed in real-time on a GPU. ...

Keywords: Gaussian stack, coordinate jitter, data amplification, neighborhood matching, runtin content synthesis, synthesis magnification

#### 9 Globally smooth parameterizations with low distortion

Andrei Khodakovsky, Nathan Litke, Peter Schröder July 2003 SI GGRAPH '03: ACM SI GGRAPH 2003 Papers

Publisher: ACM

Full text available: pdf(7.26 MB) mov(21:29 MIN) Additional Information: full citation, abstract, references, cited by index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 146, Citation Count: 19

Good parameterizations are of central importance in many digital geometry processing tasks. Typically the behavior of such processing algorithms is related to the smoothness of the parameterization and how much distortion it contains. Since a parameterization ...

Keywords: compression, parameterization, rate distortion, resampling, smoothness

## 10 Image Space Advection on graphics hardware

Markus Grabner, Robert S. Laramee

May 2005 SCCG '05: Proceedings of the 21st spring conference on Computer graphics

Publisher: ACM

Full text available: pdf(476.72 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 0

The scientific visualization and computer graphics communities have witnessed a tremendous rigin graphics processing unit (GPU) related literature and methodology recently. This is due in parthe rapidly increasing processing speed offered by graphics ...

Keywords: GPU programming, flow visualization, graphics hardware, textures, vector field visualization

11 GoLD: interactive display of huge colored and textured models Louis Borgeat, Guy Godin, François Blais, Philippe Massicotte, Christian Lahanier July 2005 ACM Transactions on Graphics (TOG), Volume 24 Issue 3 Publisher: ACM

Full text available: pdf(520.41 KB) mov(25/2 MIN) Additional Information: full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 165, Citation Count: 2

This paper presents a new technique for fast, view-dependent, real-time visualization of large multiresolution geometric models with color or texture information. This method uses geomorph to smoothly interpolate between geometric patches composing ...

Keywords: geomorphing, level-of-detail, multi-resolution geometric modeling, out-of-core rendering, texture mapping, view-dependent rendering, visualization

#### 12 A fast relighting engine for interactive cinematic lighting design

Reid Gershbein, Pat Hanrahan

July 2000 SI GGRAPH '00: Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(596.95 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 110, Citation Count: 9

We present new techniques for interactive cinematic lighting design of complex scenes that use procedural shaders. Deep-framebuffers are used to store the geometric and optical information the visible surfaces of an image. The geometric information ...

Keywords: animation, illumination, image-based rendering, optics, rendering, rendering hardw texture mapping

#### 13 Globally smooth parameterizations with low distortion

Andrei Khodakovsky, Nathan Litke, Peter Schröder

July 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 3

Publisher: ACM

Full text available: pdf(7.26 MB) mov(21:29 MIN) Additional Information: full citation, abstract, references, cited by index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 146, Citation Count: 19

Good parameterizations are of central importance in many digital geometry processing tasks. Typically the behavior of such processing algorithms is related to the smoothness of the parameterization and how much distortion it contains. Since a parameterization ...

Keywords: compression, parameterization, rate distortion, resampling, smoothness

#### 14 Surfels: surface elements as rendering primitives

Hanspeter Pfister, Matthias Zwicker, Jeroen van Baar, Markus Gross

July 2000 SI GGRAPH '00: Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(500.97 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 129, Citation Count: 97

Surface elements (surfels) are a powerful paradigm to efficiently render complex geometric object at interactive frame rates. Unlike classical surface discretizations, i.e., triangles or quadrilateral meshes, surfels are point primitives without explicit ...

Keywords: rendering systems, texture mapping

#### 15 GoLD: interactive display of huge colored and textured models

Louis Borgeat, Guy Godin, François Blais, Philippe Massicotte, Christian Lahanier July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Papers

Publisher: ACM

Full text available: pdf(520.41 KB) ( mov(25:2 MIN) Additional Information: full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 165, Citation Count: 2

This paper presents a new technique for fast, view-dependent, real-time visualization of large multiresolution geometric models with color or texture information. This method uses geomorph to smoothly interpolate between geometric patches composing ...

Keywords: geomorphing, level-of-detail, multi-resolution geometric modeling, out-of-core rendering, texture mapping, view-dependent rendering, visualization

#### 16 Spherical parametrization and remeshing

Emil Praun, Hugues Hoppe

July 2003 SIGGRAPH '03: ACM SIGGRAPH 2003 Papers

Publisher: ACM

Full text available: 📆 pdf(28.33 MB) 💸 mov(25:11 MiN) Additional Information: full citation, abstract, references, cited to

Bibliometrics: Downloads (6 Weeks): 44. Downloads (12 Months): 159. Citation Count: 24

The traditional approach for parametrizing a surface involves cutting it into charts and mapping these piecewise onto a planar domain. We introduce a robust technique for directly parametrizin genus-zero surface onto a spherical domain. A key ingredient ...

Keywords: geometry images, meshes, remeshing, texture mapping

## 17 Spherical parametrization and remeshing

Emil Praun, Hugues Hoppe

July 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 3

Publisher: ACM

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The traditional approach for parametrizing a surface involves cutting it into charts and mapping these piecewise onto a planar domain. We introduce a robust technique for directly parametrizing genus-zero surface onto a spherical domain. A key ingredient ...

Keywords: geometry images, meshes, remeshing, texture mapping

### 18 Hardware-accelerated point-based rendering of complex scenes

Liviu Coconu, Hans-Christian Hege

July 2002 EGRW '02: Proceedings of the 13th Eurographics workshop on Rendering

Publisher: Eurographics Association

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 75, Citation Count: 7

High quality point rendering methods have been developed in the last years. A common drawba

of these approaches is the lack of hardware support. We propose a novel point rendering technic that yields good image quality while fully making use of hardware ...

## 19 Shear-image order ray casting volume rendering

Yin Wu, Vishal Bhatia, Hugh Lauer, Larry Seiler

April 2003 | I 3 D '03: Proceedings of the 2003 symposium on Interactive 3D graphics

Publisher: ACM

Full text available: pdf(4.43 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 123, Citation Count: 5

This paper describes shear-image order ray casting, a new method for volume rendering. This method renders sampled data in three dimensions with image quality equivalent to the best of r per-pixel volume rendering algorithms (full image order), while ...

Keywords: base plane, image order, ray casting, shear warp, shear-image order, volume rendering

#### 20 Forward rasterization

Voicu Popescu, Paul Rosen

April 2006 ACM Transactions on Graphics (TOG), Volume 25 Issue 2

Publisher: ACM

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 168, Citation Count: 0

We describe forward rasterization, a class of rendering algorithms designed for small polygonal primitives. The primitive is efficiently rasterized by interpolation between its vertices. The interpolation factors are chosen to guarantee that each pixel ...

Keywords: 3D warping, antialiasing, point-based modeling and rendering, rasterization, render pipeline

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